Schedule of Accreditation

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7742

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Dŵr Cymru Cyfyngedig

Issue No: 048 **Issue date:** 03 November 2026

Dŵr Cymru Welsh Water
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Testing performed by the Organisation at the locations specified below

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details		Activity	Location code
Address Bretton Laboratory Lester Lane Chester CH4 0DA	**Local contact** Amanda Rogers **Tel:** +44 (0)1633 373007 **Email:** amanda.rogers@dwrcymru.com	Testing: Microbiological	B
Address Glaslyn Laboratory Glaslyn Cleppa Park Newport NP10 8UG	**Local contact** Amanda Rogers **Tel:** +44 (0)1633 373007 **Email:** amanda.rogers@dwrcymru.com	Testing: Microbiological Chemical	G

Sampling depots:

Location details	Activity	Location code
North **Dinas Depot** Llannwnda Caernarfon LL54 5UD **Local contact** Sean Dunne **Tel:** +44 (0)1633 373007	Sampling Sampling of water and wastewater for subsequent chemical and microbiological testing Testing Physical and Chemical	SAMP
North **Kinmel Park** Royal Welch Avenue Bodelwyddan LL18 5TQ **Local contact** Sean Dunne **Tel:** +44 (0)1633 373007	Sampling Sampling of water and wastewater for subsequent chemical and microbiological testing Testing Physical and Chemical	SAMP
South **Glaslyn** Cleppa Park Newport NP10 9UG **Local contact** Sean Dunne **Tel:** +44 (0)1633 373007	Sampling Sampling of water and wastewater for subsequent chemical and microbiological testing Testing Physical and Chemical	SAMP
West **Players Ind Estate** Clydach Road Clydach SA6 5BQ **Ty Twi** Unit 2 Parc Pensam Carmarthen SA31 2NF **Local contact** Sean Dunne **Tel:** +44 (0)1633 373007	Sampling Sampling of water and wastewater for subsequent chemical and microbiological testing Testing Physical and Chemical	SAMP

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS: Potable, Raw (Surface and Ground) Waters	Testing for the purpose of enforcement of the Water Supply (Water Quality) Regulations 2018 (Wales) The Private Water Supplies (Wales) Regulations 2017 & Private Water Supplies (England) 2016 (As amended) The testing is in accordance with the Drinking Water Testing Specification (DWTS) Microbiological Testing Enumeration of:	Documented In-House Methods based on Standing Committee of Analysts Methods for the Examination of Waters and Associated Materials	
	Coliforms, presumptive and confirmed and *Escherichia coli* confirmed	LPM001 and LPM002 based on "The Microbiology of Drinking Water" Part 4 (2016) using membrane filtration (MLGA) (standard and large volume analysis)	B, G
	Clostridium perfringens, presumptive and confirmed	LPM001 and LPM004 based on "The Microbiology of Drinking Water" Part 6 (2015) using membrane filtration (standard and large volume analysis)	B, G
	Enterococci, presumptive and confirmed	LPM001 and LPM003 based on "The Microbiology of Drinking Water" Part 5 (2012) using membrane filtration (standard and large volume analysis)	B, G
	Heterotrophic plate counts at 22ºC	LPM005 based on "The Microbiology of Drinking Water" Part 7 (2020) using pour plate (YEA)	B, G

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS (cont'd): Potable, Raw (Surface and Ground) Waters (cont'd)	Testing for the purpose of enforcement of the Water Supply (Water Quality) Regulations 2018 (Wales) The Private Water Supplies (Wales) Regulations 2017 & Private Water Supplies (England) 2016 (As amended) The testing is in accordance with the Drinking Water Testing Specification (DWTS) (cont'd) Microbiological Testing (cont'd)	Documented In-House Methods based on Standing Committee of Analysts Methods for the Examination of Waters and Associated Materials	
	Isolation and enumeration of *Cryptosporidium* oocycts	LPM071 based on "The Microbiology of Drinking Water" Part 14 (2010) using filtration, elution and aspiration. Filta max, IMS, confirmation by microscopy	G
Treated surface water, treated ground water, raw surface water and raw ground water	Flow Cytometry Bacterial Viability and Counting (Total cell counts,Intact cell counts, Dead Cell Counts) Confirmation and species Identification:	LPM077 in house method using Attune NxT Flow Cytometer	G
Indicator bacteria isolated from Potable, Raw (Surface and Ground) Waters using LPM methods	Coliforms Enterococci *Escherichia coli* *Clostridium perfringens*	In-house method LPM075, using MALDI-TOF (Matrix Assisted Laser Desorption Ionisation – Time of Flight)	B, G
	Enumeration of: Identification and enumeration of Algae	LPM057 in house method using inverted light microscopy and light chambers	G
	Detection of:		
Swab samples (gel medium transport and cotton swabs)	Coliforms, confirmed *Escherichia coli*, confirmed	LPM030 – in house method using elution into MRD followed by filtration onto selective media. Confirmation using procedures in LPM 002 and LPM003 as relevant	B, G

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WATERS (cont'd): Potable, Raw (Surface and Ground) Waters (cont'd)	Testing for the purpose of enforcement of the Water Supply (Water Quality) Regulations 2018 (Wales) The Private Water Supplies (Wales) Regulations 2017 & Private Water Supplies (England) 2016 (As amended) The testing is in accordance with the Drinking Water Testing Specification (DWTS) (cont'd) Chemical Testing	Documented In-House Methods based on Standing Committee of Analysts Methods for the Examination of Waters and Associated Materials	
	Absorbance at 254nm Transmission at 254nm	In-house method LPM 064 by spectrometry	G
	pH Conductivity Turbidity	In-house method LPM 043 using automated Skalar	G
	Colour	In-house method LPM 063 using spectrophotometry	G
	Chlorophyll A	In-house method LPM 044 using manual spectrophotometry	G

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WATERS (cont'd): Potable, Raw (Surface and Ground) Waters (cont'd)	Testing for the purpose of enforcement of the Water Supply (Water Quality) Regulations 2018 (Wales) The Private Water Supplies (Wales) Regulations 2017 & Private Water Supplies (England) 2016 (As amended) The testing is in accordance with the Drinking Water Testing Specification (DWTS) (cont'd) Chemical Testing (cont'd)	Documented In-House Methods based on Standing Committee of Analysts Methods for the Examination of Waters and Associated Materials	
	Nutrients: Alkalinity Ammonia Chloride Fluoride Nitrite Phosphate Sulphate Total Oxidised Nitrogen Nitrate (by calculation) Nitrate/nitrite ratio (by calculation)	In-house method LPM 036 Using discrete photometric analyser	G
	Bromate Bromide Chlorate Chlorite	In-house method LPM 048 using Dionex IC	G

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS (cont'd): Potable, Raw (Surface and Ground) Waters (cont'd)	Testing for the purpose of enforcement of the Water Supply (Water Quality) Regulations 2018 (Wales) The Private Water Supplies (Wales) Regulations 2017 & Private Water Supplies (England) 2016 (As amended) The testing is in accordance with the Drinking Water Testing Specification (DWTS) (cont'd) Chemical Testing (cont'd)	Documented In-House Methods based on Standing Committee of Analysts Methods for the Examination of Waters and Associated Materials	
	Metals: Aluminium Antimony Arsenic Boron Cadmium Calcium Chromium Copper Iron Lead Magnesium Manganese Mercury Nickel Phosphorus Potassium Selenium Sodium` Uranium Zinc	In-house method LPM 038 using ICP-MS	G
	Total hardness (calculation)		
	Total Organic Carbon Dissolved Organic Carbon	In-house method LPM 081 using combustion and infra-red detection	G

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS (cont'd): Potable, Raw (Surface and Ground) Waters (cont'd)	Testing for the purpose of enforcement of the Water Supply (Water Quality) Regulations 2018 (Wales) The Private Water Supplies (Wales) Regulations 2017 & Private Water Supplies (England) 2016 (As amended) The testing is in accordance with the Drinking Water Testing Specification (DWTS) (cont'd) Chemical Testing (cont'd)	Documented In-House Methods based on Standing Committee of Analysts Methods for the Examination of Waters and Associated Materials	
	Suspended solids	In-house method LPM 045 using filtration, followed by weight difference to derive concentration	G
	Volatile Organic Compounds: Benzene Bromodichloromethane Bromoform Carbon Tetrachloride Chlorodibromomethane Chloroform 1,2-Dichloroethane Tetrachloroethene Trichloroethene 1,1,1-Trichloroethene Total Tetrachloroethene & Trichloroethene (by calculation) Total THM (by calculation)	In-house method LPM 042 using headspace GC-MS	G
	Polycyclic Aromatic Hydrocarbons (PAHs): Fluoranthene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Benzo(g,h,i)perylene Total PAH (by calculation)	In-house method LPM 047 using solid phase extraction and HPLC with fluorescence detection	G

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS (cont'd): Potable, Raw (Surface and Ground) Waters (cont'd)	Testing for the purpose of enforcement of the Water Supply (Water Quality) Regulations 2018 (Wales) The Private Water Supplies (Wales) Regulations 2017 & Private Water Supplies (England) 2016 (As amended) The testing is in accordance with the Drinking Water Testing Specification (DWTS) (cont'd) Chemical Testing (cont'd)	Documented In-House Methods based on Standing Committee of Analysts Methods for the Examination of Waters and Associated Materials	
	Glyphosate	In-house method LPM 053 using derivatisation, solid phase extraction and LC-MS-MS	G
	Acid Herbicides: 2,4,5-T 2,4-D 2,4-DB Asulam Benazolin Bentazone Bromoxynil Clopyralid Dicamba Dichlorprop Fluroxypyr Fluxapyroxad Ioxynil MCPA MCPB Mecoprop Metaldehyde Pentachlorophenol Quinmerac Triclopyr	In-house method LPM 049 using direct aqueous analysis by LC-MS-MS	G

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	Non-polar Pesticides: 1,2,4-Trichlorobenzene Aldrin Chlorpyrifos-ethyl Chlorpyrifos-methyl Chlorothalonil Cis-Heptachlor Epoxide Dieldrin Heptachlor Parathion-ethyl Trans-Heptachlor Epoxide Total heptachlorepoxide (by Calculation) Total permethrin (by calculation)	In-house method LPM 050 using liquid-liquid extraction and GC-MS-MS	G

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS (cont'd): Potable, Raw (Surface and Ground) Waters (cont'd)	Testing for the purpose of enforcement of the Water Supply (Water Quality) Regulations 2018 (Wales) The Private Water Supplies (Wales) Regulations 2017 & Private Water Supplies (England) 2016 (As amended) The testing is in accordance with the Drinking Water Testing Specification (DWTS) (cont'd)	Documented In-House Methods based on Standing Committee of Analysts Methods for the Examination of Waters and Associated Materials	
	Polar Pesticides: Carbendazim Carbetamide Chlormequat Chlortoluron Diazinon Diflufenican Diuron Ethofumesate Epoxiconazole Flufenacet Flurtamone Linuron Metamitron Metazachlor Metconazole Metsulfuron-methyl Picolinafen Pirimiphos Methyl Prochloraz Propazine Propyzamide Simazine Tebuconazole	In-house method LPM 051 using direct aqueous analysis by LC-MS-MS	G
	Taste and Odour causing contaminants: 2-Methyl isoborneol Geosmin	In-house method LPM 046 using GCMSMS	G
	GCMS qualitative screen for unknown organic compounds (Non DWTS)	In-house method LPM 054 using GC-MS (Non DWTS)	G

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
WATERS (cont'd): Potable, Raw (Surface and Ground) Waters (cont'd)	Testing for the purpose of enforcement of the Water Supply (Water Quality) Regulations 2018 (Wales) The Private Water Supplies (Wales) Regulations 2017 & Private Water Supplies (England) 2016 (As amended) The testing is in accordance with the Drinking Water Testing Specification (DWTS) (cont'd) Chemical Testing (cont'd)	Documented In-House Methods based on Standing Committee of Analysts Methods for the Examination of Waters and Associated Materials	
Potable Water	Taste and Odour (Qualitative and Quantitative)	In-house method LPM 041 based on SCA Blue Book Method 233 (2025) using testing panel	G
Surface Water, Ground Water	Odour (Qualitative and Quantitative)	In-house method LPM 041 Based on SCA Blue Book Method 233 (2025) using testing panel	G
Potable, Raw (Surface and Ground) Waters	Taste and Odour (Qualitative)	In-house methods LPM 056 based on SCA Blue Book Methods 233 Method A1 (2025) using laboratory based single panellist	G

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
POTABLE AND RAW WATER (Surface and Ground) sampled from:	<u>Sampling for Chemical and Microbiological Testing of Water</u>	In house procedures as documented in the company sampling procedures manual	
Water Treatment Works Service Reservoirs (tap sample) Consumer taps Service Reservoirs and Contact Tanks (dip sample) Hydrants Consumer Boundary Box (via standpipe) Water Bowser	Sampling for eventual testing for the purpose of enforcement of the Water Supply (Water Quality) Regulations 2018 (Wales) as amended the sampling and appropriate testing is in accordance with the Drinking Water Testing Specification (DWTS) and includes sampling for Cryptosporidium	Water sampling documents prefixed: LSC - Core Skills LSP- Procedures LSF - Forms	SAMP
Sample Taps	Swab sampling		
	<u>Chemical Tests at Site</u>		
	Free Residual Chlorine Total Chlorine	By Colorimetry, in-house Procedure LPM031	SAMP
WASTE WATER Sampled from:	<u>Sampling Waste Water</u>	In house procedures as documented in the company sampling procedures manual	
Treated Sewage Effluent from Waste Water Treatment Works Trade effluent to controlled water from Water Treatment Works	Spot Sampling to meet the requirements of the Environment Agency MCERTS (Water) Performance Standard, and the subsequent chemical testing at a laboratory accredited to ISO 17025:2017 and the MCERTS for testing	Waste water sampling documents prefixed: WSC - Core Skills WSP- Procedures WSF - Forms	SAMP
	<u>Physical Tests at Site</u>		
	On-site measurement of temperature.		
	Chemical Tests at Site		
Water Treatment Works Effluent Only	Free Residual Chlorine Total Chlorine	By Colorimetry, in house Procedure LPM079	

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